



July 18, 2018

Mort Schmidt Cox-Colvin & Associates 7750 Corporate Blvd. Plain City, OH 43064

RE: Project: AK Steel Middletown, Fenceline-Revised Report

Pace Project No.: 10438957

Dear Mort Schmidt:

Enclosed are the analytical results for sample(s) received by the laboratory on July 11, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Report was revised on July 18, 2018 to include the units conversion to ppbv.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne That

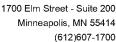
Carolynne Trout carolynne.trout@pacelabs.com 1(612)607-6351 Project Manager

Enclosures

cc: Lab Info, Cox-Colvin & Associates Kathy Sarver, Cox-Colvin & Associates Henry Stahl, Cox-Colvin & Associates



REPORT OF LABORATORY ANALYSIS





CERTIFICATIONS

Project: AK Steel Middletown, Fenceline-Revised Report

Pace Project No.: 10438957

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01 Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014 Arkansas DW Certification #: MN00064 Arkansas WW Certification #: 88-0680 California Certification #: 2929 CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064 Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-

053-137

Florida Certification #: E87605 Georgia Certification #: 959

Guam EPA Certification #: MN00064 Hawaii Certification #: MN00064 Idaho Certification #: MN00064 Illinois Certification #: 200011 Indiana Certification #: C-MN-01

Iowa Certification #: 368 Kansas Certification #: E-10167

Kentucky DW Certification #: 90062 Kentucky WW Certification #: 90062 Louisiana DEQ Certification #: 03086 Louisiana DW Certification #: MN00064

Maine Certification #: MN00064 Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647

North Carolina DW Certification #: 27700 North Carolina WW Certification #: 530 North Dakota Certification #: R-036 Ohio DW Certification #: 41244 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: T4003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382

Wyoming UST Certification #: 2926.01 via A2LA

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS





SAMPLE SUMMARY

Project: AK Steel Middletown, Fenceline-Revised Report

Pace Project No.: 10438957

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10438957001	AKAA-01	Air	07/09/18 10:30	07/11/18 09:45
10438957002	AKAA-01 cert #1077	Air	07/09/18 10:30	07/11/18 09:45
10438957003	AKAA-02	Air	07/09/18 10:38	07/11/18 09:45
10438957004	AKAA-02 cert #0948	Air	07/09/18 10:38	07/11/18 09:45
10438957005	AKAA-03	Air	07/09/18 10:12	07/11/18 09:45
10438957006	AKAA-03 cert #1632	Air	07/09/18 10:12	07/11/18 09:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AK Steel Middletown, Fenceline-Revised Report

Pace Project No.: 10438957

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10438957001	AKAA-01	TO-15	MLS	1	PASI-M
10438957002	AKAA-01 cert #1077	TO-15	MJL	1	PASI-M
10438957003	AKAA-02	TO-15	MLS	1	PASI-M
10438957004	AKAA-02 cert #0948	TO-15	NCK	1	PASI-M
10438957005	AKAA-03	TO-15	MLS	1	PASI-M
10438957006	AKAA-03 cert #1632	TO-15	CH1	1	PASI-M

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AK Steel Middletown, Fenceline-Revised Report

Pace Project No.: 10438957

Date: 07/18/2018 04:43 PM

Sample: AKAA-01	Lab ID: 10438957001		Collected: 07/09/18 10:30		Received:	07/11/18 09:45	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Meth	nod: TO-15						
Benzene	2.7	ug/m3	0.47	1.46		07/12/18 19:5	50 71-43-2	
Sample: AKAA-01 cert #1077	Lab ID: 104	38957002	Collected: 07/09/	18 10:30	Received:	07/11/18 09:45	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Meti	nod: TO-15						
Benzene	ND	ug/m3	0.32	1		06/19/18 00:0	34 71-43-2	
Sample: AKAA-02	Lab ID: 104	38957003	Collected: 07/09/	18 10:38	Received:	07/11/18 09:45	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Met	nod: TO-15						
Benzene	2.9	ug/m3	0.48	1.49		07/12/18 20:2	27 71-43-2	
Sample: AKAA-02 cert #0948	Lab ID: 104	38957004	Collected: 07/09/	18 10:38	Received:	07/11/18 09:45	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Meth	nod: TO-15						
Benzene	ND	ug/m3	0.32	1		05/21/18 13:	14 71-43-2	
Sample: AKAA-03	Lab ID: 104	38957005	Collected: 07/09/	18 10:12	Received:	07/11/18 09:45	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Met	nod: TO-15						
Benzene	0.68	ug/m3	0.47	1.44		07/12/18 21:0	04 71-43-2	
Sample: AKAA-03 cert #1632	Lab ID: 104	38957006	Collected: 07/09/	18 10:12	Received:	07/11/18 09:45	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Met	nod: TO-15						
Benzene	ND	ug/m3	0.32	1		06/22/18 10:0	03 71-43-2	

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

AK Steel Middletown, Fenceline-Revised Report Project:

Pace Project No.:

10438957

550031 QC Batch: QC Batch Method: TO-15

Analysis Method:

Analysis Description:

TO-15

TO15 MSV AIR Low Level

Associated Lab Samples:

10438957001, 10438957003, 10438957005

METHOD BLANK: 2988949

Matrix: Air

Associated Lab Samples:

10438957001, 10438957003, 10438957005

Blank

Reporting

Parameter

Units

Result

Limit

Analyzed

Qualifiers

Benzene

ug/m3

ND

0.32 07/12/18 09:53

LABORATORY CONTROL SAMPLE: Parameter

2988950

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Benzene

Benzene

Units ug/m3

Units

ug/m3

32.5

31.4

97

25

25

SAMPLE DUPLICATE: 2989415

Date: 07/18/2018 04:43 PM

Parameter

10438749001 Result

Dup Result

RPD

Max **RPD**

70-134

Qualifiers

SAMPLE DUPLICATE: 2989427

10438749002

Dup

ND

43.0

Max

2

Benzene

Parameter Units ug/m3 Result 4260 Result 4170

RPD

RPD

Qualifiers

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: AK Steel Middletown, Fenceline-Revised Report

Pace Project No.: 10438957

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

SAMPLE QUALIFIERS

Sample: 2989415

[1] This result is reported from a serial dilution.

Sample: 2989427

Date: 07/18/2018 04:43 PM

[1] This result is reported from a serial dilution.

REPORT OF LABORATORY ANALYSIS





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AK Steel Middletown, Fenceline-Revised Report

Pace Project No.: 10438957

Date: 07/18/2018 04:43 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10438957001	AKAA-01	TO-15	550031	***************************************	***************************************
10438957003	AKAA-02	TO-15	550031		
10438957005	AKAA-03	TO-15	550031		
10438957002	AKAA-01 cert #1077	TO-15	550631		
10438957004	AKAA-02 cert #0948	TO-15	550631		
10438957006	AKAA-03 cert #1632	TO-15	550631		

REPORT OF LABORATORY ANALYSIS

g05, 02kg 003,00V 200'100 zkatem Exhaust sed lios TiA Toobri Ambient Outdoor Air adyT aldme2 Fixed Gases (O2, CO2, CO, N2, CH4) TO-15. BENZENE ONLY eisylenA Sample Condition PID Reading (mdd) ¥, Ä ž PO# (Nens) Carver: Pace Columbus/Englewood Service Center Controller ID | Canister ID 04780 9,45 FE 23 1632 Time 13:55 Mort_Schmidt@CoxColvin.com Kathy Sarver@CoxColvin.com Henry Stahl@CoxColvin.com Labinfo@CoxColvin.com Turn Around Time: 5-Day 0747 5%5 1398 \$ 000 P Date End Send Information to: End Vacuum (inHg) ئ بر Start Ņ Accepted by (Name, Affiliation) Vacuum (inHg) 30x Exterior 5070 End Time 1038 701 End Ϋ́ Ž Email: Mort_Schmidt@CoxColvin.com Project Manager: Mort Schmidt Laboratory: Pace Minneapolis 1036 1035 Lab Contact: Carolynne Trout Start Time びなび Time Start Š Ä Phone: 614-526-2040 Lab Quote: 00049208 14/18 Sample Date Project Name: AK Steel Middletown, Fenceline Benzene Interior F6-1 10 -Pressure (InHg) Temperature (Fahrenheit) Cox-Colvin Air Sample Chain of Custody Site/Location: Middletown, Ohio Samplers: RM, 圧く Relinquished by (Name, Affiliation) Client Contact Information Cox-Colvin & Associates Plain City, Ohio 43064 Phone: 614-526-2040 7750 Corporate Blvd. Fax: 614-526-2041 Sampler Comments Laboratory Notes AKAA-02 AKAA-03 AKAA-01 Sample

WO#:10438957

Page 9 of 10



Document Name: Air Sample Condition Upon Receipt Document No.: Document Revised: 02May2018
Page 1 of 1
Issuing Authority:
Page Minnesota Quality Office

Air Sample Condition Client Name			D	"		race will	nesota Quanty (Auce	J
Air Sample Condition Upon Receipt Client Name:			Projec	ct #:	#0k	: 104	<u> 3895</u>	7	manakkan dan mengan pangan
Courier: Fed Ex	□UPS	Speed	ee Client_	F	M: CT1	. 0	ue Date:	07/18/1	8
Commercial	Pace	Other:	EL TUTTO	(LIENT:	Cox Colv	in		
Tracking Number: 4164 667	12615	12679	72604	 					
Custody Seal on Cooler/Box Present?	Yes	Σ No	Seals Intact?	Yes	Z No	Optional: Pr	oj. Due Date:	Proj. Name:	
Packing Material: Bubble Wrap	Bubble B	ags 🔼 Foar	m ∐None [Tin Can	Othe	er:	Temp	Blank rec:]Yes 🕍 No
Temp. (TO17 and TO13 samples only) (°C):	arrian-	Corrected Tem	np (°C):	Thermo	om. Used:			☐G87A9170	600254
Temp should be above freezing to 6°C	Correction Factor	or:	-	Date &	Initials of I	Person Examining	Contents:	S 687A9155	100842 1 1 8
Type of ice Received Blue Wet	None					·	_+		
	2001					Co	mments:		
Chain of Custody Present?		XÓYes	□No	1.			200000		
Chain of Custody Filled Out?		2 ₩es	□No	2.					
Chain of Custody Relinquished?		Yes	□No	3.		107		788-4-E	<u></u>
Sampler Name and/or Signature on CO	C?	∑ Ye₅	□No □N//	A 4.					
Samples Arrived within Hold Time?	* <u></u>	Øves	□No	5.				·····	
Short Hold Time Analysis (<72 hr)?		Yes	ØNo	6.			,,,		
Rush Turn Around Time Requested?		Yes	ŽÎNo	7.					
Sufficient Volume?	w	∑Yes	No	8.					
Correct Containers Used?		Yes	□No	9.			7,000	, , , , , , , , , , , , , , , , , , ,	
-Pace Containers Used?		X	□No			······································			
Containers Intact?		Yes	□No	10.				y 3.0 00	1700
Medla: (Air Can Airbag	Filter	TDT	Passive	11.	Individ	lually Certified C	ans Y N	(list which sa	mples)
Is sufficient information available to rect to the COC?	oncile samples	s [XI∕es	□No	12.					
Samples Received: 9 Caves		·	14		A	Pressure G:	uge # 1ΩΔIR	26	44-4
,	isters				Pressure Gauge # 10AIR26 Canisters				
	Flow	Initial	Final PU	714/18	<u>,,,</u>	Ca	Flow	Initial	Final
Sample Number Can ID	Controller	Pressure	Pressure 1		Number	Can ID	Controller	Pressure	Pressure
AKAA-01		-2,5	+10.5	······					
		-3	<u> </u>						
N 03		-2	+5						
					777	-			
								,	
									<u> </u>
CLIENT NOTIFICATION/RESOLUTION						Field Data	Remuiredo l	YesNo	
Person Contacted:				Date/Tim	ne:	rielu Data	_		
Comments/Resolution:	,					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
			············	**					
Project Manager Review:	Jan	L	-	,,		(4.4.14.0		7.70	

Project Manager Review: | (Aux lymne VIIII S | Date: 1/11/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Pace Analytical Services, Inc. 17 00 Elm Street - Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

Qualifiers

ANALYTICAL RESULTS

Client: Cox Colvin Lab Project Number: 10438957

Phone: 614-526-2040 Project Name: AK Steel Middletown, Fenceline

Lab Sample No:

10438957001 ProjSampleNum: 10438957001

Units

ppbv

Date Collected: 07/09/18 10:30

Client Sample ID:

AKAA-01

Matrix: Air

Date Received: 07/11/18 9:45

Air TO-15

Parameters

Benzene

Date: 7/17/2018

0.83

Results

0.14

Report Limit

1.46

DF

07/12/18 19:50 MLS

Analyzed

71-43-2

CAS No.

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Page 1 Units Conversion Request



614-526-2040

Pace Analytical Services, Inc. 17 00 Elm Street – Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

7 80. 012

ANALYTICAL RESULTS

Client: Cox Colvin Lab Project Number: 10438957

Project Name: AK Steel Middletown, Fenceline

Lab Sample No: 10438957002 ProjSampleNum: 10438957002

AKAA-01 cert #1077

Date Collected: 07/09/18 10:30

Matrix: Air Date Received: 07/11/18 9:45

Parameters Results Units Report Limit DF Analyzed CAS No. Qualifiers

Air

AIF TO-15

Phone:

Client Sample ID:

Date: 7/17/2018

Benzene ND ppbv 0.099 1 06/19/18 0:34 MJL 71-43-2

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request Page 2



Pace Analytical Services, Inc. 17 00 Elm Street – Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

Qualifiers

ANALYTICAL RESULTS

Client: Cox Colvin

Lab Project Number: 10438957

Phone: 614-526-2040

Project Name: AK Steel Middletown, Fenceline

Lab Sample No: Client Sample ID:

Date: 7/17/2018

10438957003 ProjSampleNum: 10438957003

Date Collected: 07/09/18 10:38

AKAA-02

Matrix: Air Date Received: 07/11/18 9:45

Parameters Results Units Report Limit DF Analyzed CAS No.

Air

AIF TO-15

Benzene 0.89 ppbv 0.15 1.49 07/12/18 20:27 MLS 71-43-2

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



Pace Analytical Services, Inc. 17 00 Elm Street - Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700

Fax: 612.607.6444

Qualifiers

ANALYTICAL RESULTS

Client: Cox Colvin Lab Project Number: 10438957

Phone: 614-526-2040 Project Name: AK Steel Middletown, Fenceline

Lab Sample No:

10438957004 ProjSampleNum: 10438957004

Units

Date Collected: 07/09/18 10:38

Client Sample ID:

AKAA-02 cert #0948

Results

ND

Matrix: Air

Date Received: 07/11/18 9:45

Air TO-15

Parameters

Benzene

Date: 7/17/2018

ppbv

0.099

Report Limit

DF

05/21/18 13:14 NCK

Analyzed

71-43-2

CAS No.

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request

Page 4



Pace Analytical Services, Inc. 17 00 Elm Street – Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

Qualifiers

ANALYTICAL RESULTS

Client: Cox Colvin

AKAA-03

Lab Project Number: 10438957

Phone: 614-526-2040

Project Name: AK Steel Middletown, Fenceline

CAS No.

Lab Sample No: Client Sample ID: 10438957005 F

Results

ProjSampleNum: 10438957005 Date Collected: 07/09/18 10:12

Analyzed

Matrix: Air

DF

Date Received: 07/11/18 9:45

Air TO-15

Parameters

Date: 7/17/2018

Benzene 0.21 ppbv 0.14 1.44 07/12/18 21:04 MLS 71-43-2

Units

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Report Limit

SUPPLEMENTAL REPORT

Units Conversion Request Page 5



Pace Analytical Services, Inc. 17 00 Elm Street - Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700

Fax: 612.607.6444

Qualifiers

ANALYTICAL RESULTS

Client: Cox Colvin Lab Project Number: 10438957

Phone: 614-526-2040 Project Name: AK Steel Middletown, Fenceline

Lab Sample No:

10438957006

ProjSampleNum: 10438957006

Date Collected: 07/09/18 10:12

Client Sample ID:

AKAA-03 cert #1632

Matrix: Air

Date Received: 07/11/18 9:45

Air TO-15

Parameters

Benzene

Date: 7/17/2018

Units

ppbv

Results

ND

0.099

Report Limit

DF

06/22/18 10:03 CH1

Analyzed

CAS No.

71-43-2

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request

Page 6



Date: 7/17/2018

Pace Analytical Services, Inc. 17 00 Elm Street - Suite 200 Winneapolis, MN 55414 Phone: 612.607.1700

Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Cox Colvin Lab Project Number: 10438957

614-526-2040 Phone: Project Name: AK Steel Middletown, Fenceline

PARAMETER FOOTNOTES

SUPPLEMENTAL REPORT

Page 7 Units Conversion Request